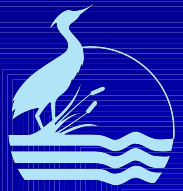


ENVIRONMENTAL SERVICES
CITY OF PORTLAND

working for clean rivers

Dean Marriott
Environmental Services Director

Janet Gillaspie
Oregon ACWA Executive Director

Portland's Wastewater and Stormwater Utility

- Serves over 560,000
- Funded by revenue collected from commercial and residential sewer bill

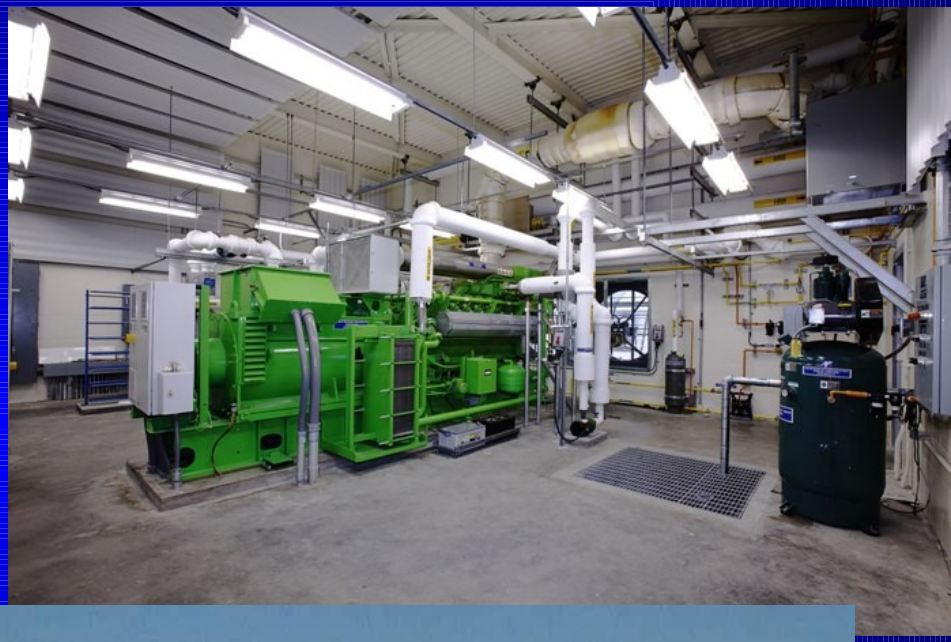
Wastewater Treatment and Collection System

- 2 treatment plants
- More than 2000 miles of sewer lines
- 1000 miles of drainage system
- 100 pump stations
- 80 mgd treatment

Wastewater Treatment

Environmental Features

- Co-Generation Facility
- Sodium Hypochlorite
- Odor control
- Biosolids recycling

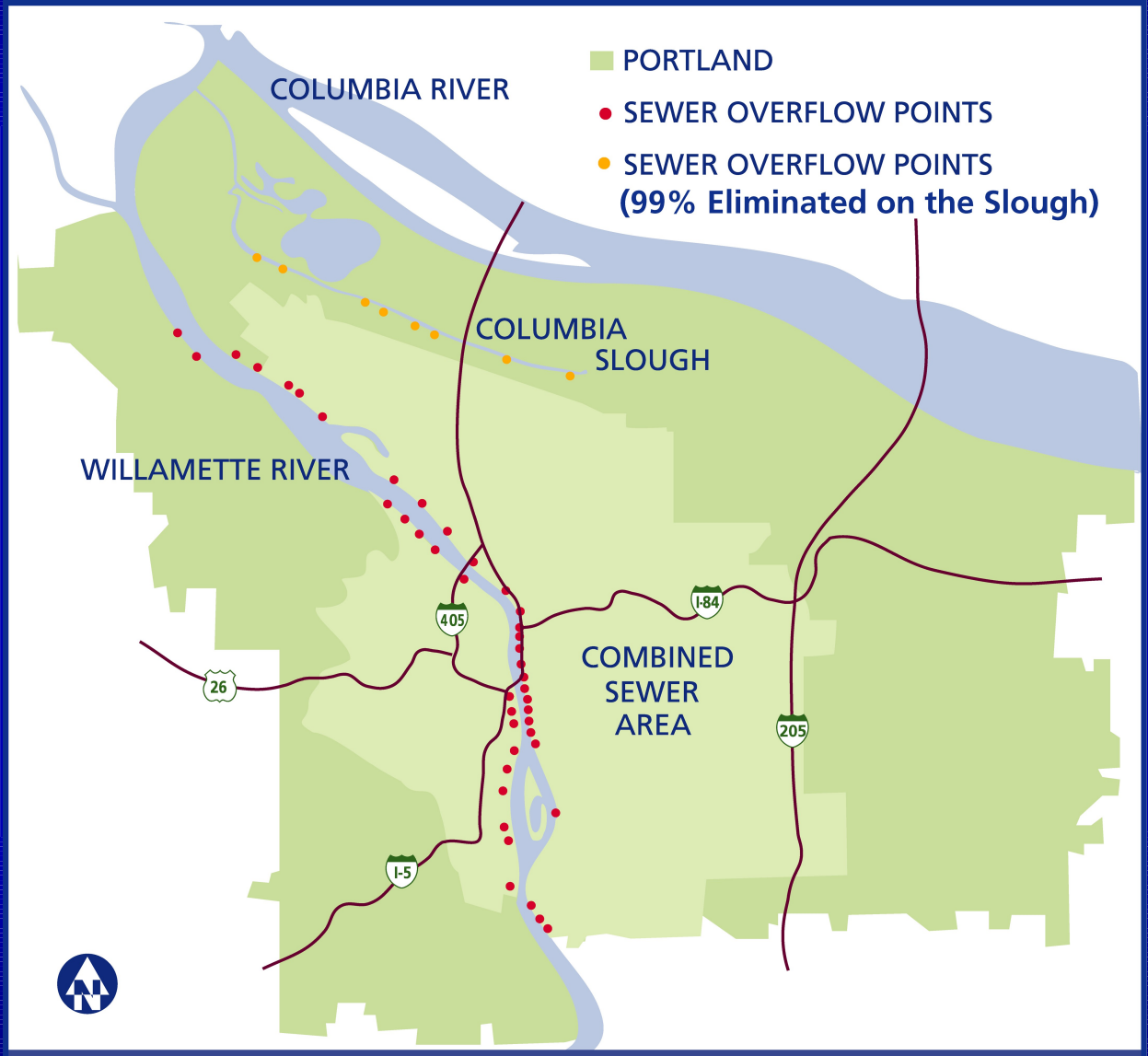


Pollution Prevention Services

Protecting the treatment system and waterways

- Source Control program
- Partner with trade groups - dental, auto, photo finishers (silver), restaurants
- 99% compliance by industry
- 450 business permits
- Technical Assistance

Combined Sewer Area



More than half of Portland's residents are served by combined sewers.
Areas developed since about 1960 have separate sanitary and storm systems.

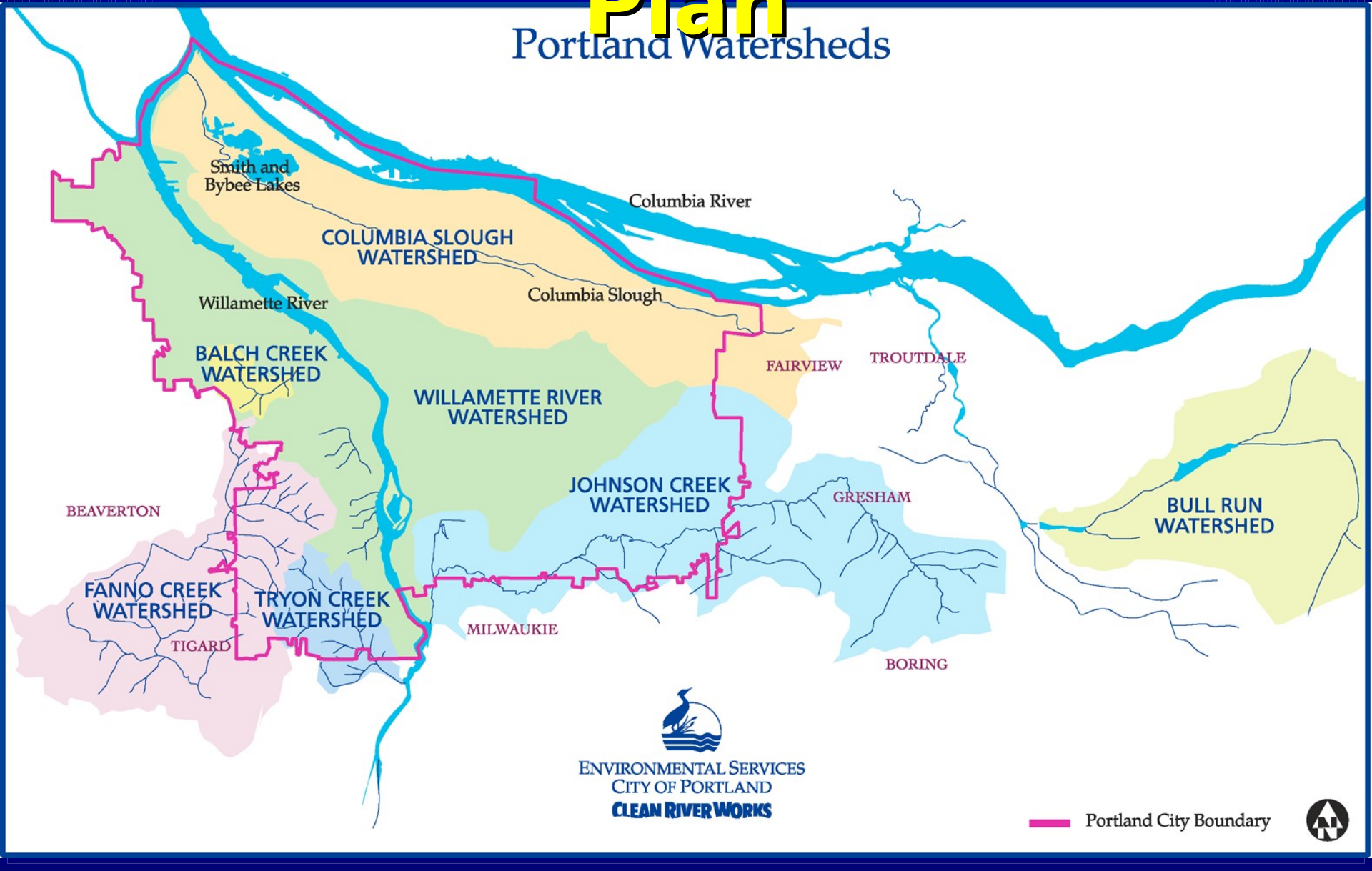
Operations and Maintenance

- Aging system
- $254 million 2007-2008 fiscal year budget
  - $93.5 million operating budget
  - $155.5 million capital budget

City of Portland

- Covers 135 square miles
  - 18 square miles of rooftops
  - 15 square miles of streets
  - 12 square miles of parking lots

Watershed Management Plan



Grey to Green Initiative

- Invest $50 million over 5 years to protect and enhance watershed health
  - Add 43 acres of ecoroofs
  - Construct 920 green streets
  - Plant 33,000 yard trees and 50,000 street trees
  - Accelerate the battle against invasive vegetation
  - Protect natural areas

Green Solutions Guiding Principles

1. Manage stormwater runoff both at the source and at the surface.
2. Use plants and soil to slow, filter, cleanse, and infiltrate runoff.
3. Design facilities that aesthetically enhance the community.

Green Infrastructure

Ecoroofs
Swales
Planters
Green Streets

Green Streets

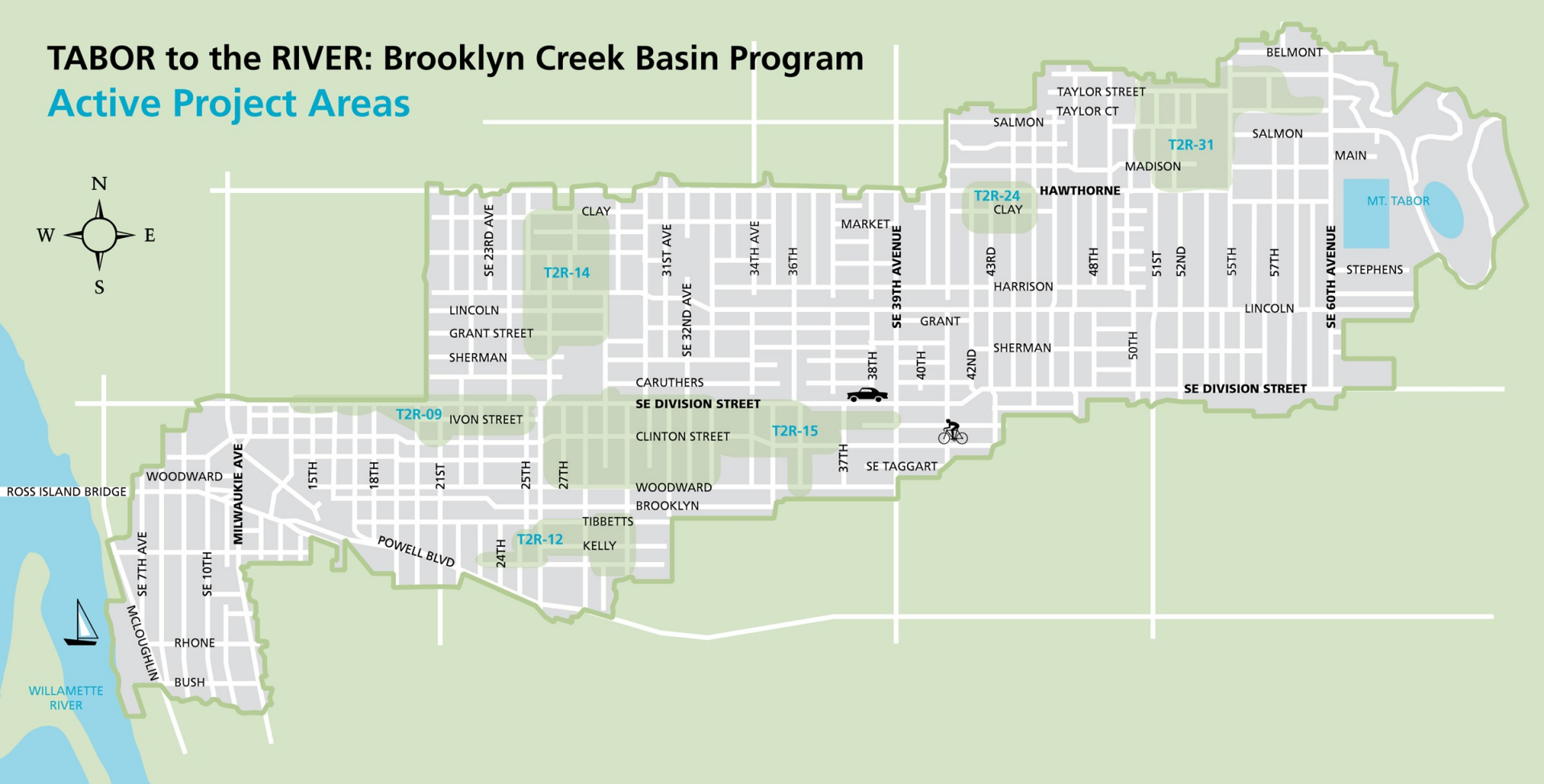
behind the curb swale /

curb extension swale /

planter

rain garden / basin

Tabor to the River



Tabor to the River

Clean River Rewards

Property owners who manage stormwater on their property can get up to a 100% discount on their on-site stormwater management charge

Information and Community Outreach

- Public information strategy
- Transparent process
- Involve community in decision making
- Clean rivers education
- Incentives and partnerships

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